

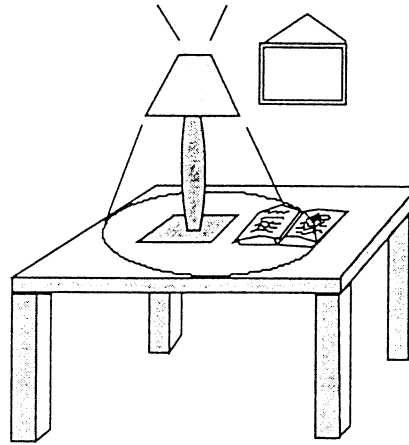


Grade 5 Science

***Released Items
Winter 2000***

- 5 Which of the following is **NOT** made up of cells?
- A a pile of sand
 - B a slice of an apple
 - C the skin of an onion
 - D the cheek of a human
- 11 When the number of members in a species becomes very small, that species is said to be
- A little.
 - B extinct.
 - C balanced.
 - D endangered.
-

Use the illustration to answer questions 23 through 27.



The desk lamp provides a source of light that illuminates the book that Jamal is reading. The lamp also sends out rays of light to all parts of the room.

- 23 How does light get under the desk?
- A Some light rays shine very brightly.
 - B Some light rays bounce off the wall.
 - C Some light rays pass through the desk top.
 - D Some light rays bend around the edges of the desk.
- 24 Jamal notices that the lamp provides light for the entire room. When the teacher uses the projector at school, the screen has light, but the rest of the room stays dark. Which of these statements explains the difference between the lamp and the projector?
- A The lampshade directs all light onto the table.
 - B The projector spreads light around the room.
 - C The lampshade blocks the path of light.
 - D The projector directs most of the light to the screen.
-

- 25 Where would the light be least bright?
- A on the wall by the desk
 - B on the book on the desk
 - C on the floor under the desk
 - D on the ceiling above the desk
- 26 Why is the area directly under the desk lamp brighter than the area toward the edge of the desk?
- A The light bulb in a desk lamp shines light down but not out.
 - B The light bulb is defective. A better light bulb could illuminate both areas equally.
 - C More of the light is blocked by the lamp shade toward the edge of the desk.
 - D The book absorbs too much of the light.
- 27 **Read the poem and answer the question that follows.**

From watching the moon
I turned,
And my friendly old
Shadow led me home.
by Shiki

In the poem, why does the poet say that the shadow is leading the person home?
Use words or a drawing to explain your scientific reasoning.

**ANSWER THIS ITEM IN YOUR ANSWER BOOKLET.
NOTHING WRITTEN IN THE SPACE BELOW WILL BE SCORED.**

Constructed Response 2.

Read the poem and answer the question that follows.

From watching the moon
I turned,
And my friendly old
Shadow led me home.

by Shiki

In the poem, why does the poet say that the shadow is leading the person home? Use words or a drawing to explain your scientific reasoning.

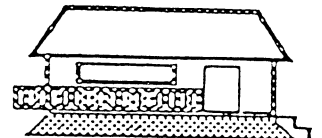
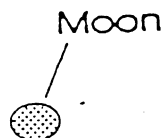
Sample Response

When a person turns his/her back to the moon and walks toward his/her house, his/her shadow will get there first.

The answer may be given in picture form.

The picture must show the moon, person, and shadow in correct relation to each other.

The house may appear anywhere in the picture or be absent from the picture.



Scoring Guide

1 = complete explanation or picture

0 = inappropriate response

The shadow is in front of me so
it points the way home.

Score point: 0

This response merely paraphrases the poem. It does not address the issue of why the shadow leads the poet home.

In the poem, the poet says that
the shadow is leading the person home
by having the moon on the
person's back, it makes the shadow
in front of the person that's walking
home.

Score point: 1

This response gives a complete explanation of why the shadow leads the poet home. After turning around, the moon is at the poet's back, projecting a shadow in front of him, leading toward home.

In the poem, the poet says that the shadow is leading the person home by having the moon on the person's back, it makes the shadow in front of the person that's walking home.

Score point: 1

This response gives a complete explanation of why the shadow leads the poet home. After turning around, the moon is at the poet's back, projecting a shadow in front of him, leading toward home.

- 38 One complete turn of the earth around its own axis best describes
- A one day.
 - B one week.
 - C one month.
 - D one year.
- 40 Which of the following would **NOT** be a source of drinking water in Michigan?
- A glacier runoff
 - B underground wells
 - C the Great Lakes
 - D rivers
-

Multiple Choice Item Answer Key

<u>Item</u>	<u>Answer</u>
5	A
11	D
23	B
24	D
25	C
26	C
38	A
3	A
